

Determination of several α -amino acids by flow injection and continuous-flow analysis with membrane extraction

Fitseva N., Stoikov I., Fitsev I., Antipin I., Konovalov A.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

Methods for determining several α -amino acids in systems of liquid membrane extraction were developed on the basis of flow analysis techniques, namely, flow injection and continuous-flow analysis. Lipophilic α -aminophosphonate (O,O-dipentyl-1-(N-benzyl)aminocyclopentylphosphonate) impregnated into a teflon matrix was used as a carrier. Limits of detection of DL- β -phenyl- α -alanine were 4×10^{-7} M (flow-injection mode) and 7×10^{-6} M (continuous-flow mode); the value for DL-valine was 9×10^{-5} M (continuous-flow mode). © 1998 MAEe cyrillic signK Hayka/Interperiodica Publishing.
